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PROFESSION NO	HILING DATE:	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/832,492	04/11/2001	Yiqiang Li	1983P	9971
750			EXAM	INER
Joseph A. Saw SAWYER LAW P.O. Box 51418	GROUP LLP		RAHLL, JERRY T	
Palo Alto, CA 94303			ART UNIT	PAPER NUMBER
			2874	

DATE MAILED: 07/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
• •		09/832,492	LI ET AL.				
•	Office Action Summary	Examiner	Art Unit				
		Jerry T Rahll	2874				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a) In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1)	— 47 April 2002						
2a)⊡	This action is <b>FINAL</b> . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
-	on of Claims						
4) Claim(s) 1-22 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
•	Claim(s) <u>1-22</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/	or election requirement.					
	ion Papers	or					
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachme							
1) Not	cice of References Cited (PTO-892)  Cice of Draftsperson's Patent Drawing Review (PTO-948)  Commation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				

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#### DETAILED ACTION

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the 1. basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-22 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 2. 6,366,402 to Li.

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Li describes an optical circulator having a first port (102), a second port (104), a third 3. port (106), a first birefringent material (110) coupled to the first and third ports having a longitudinal axis, a transverse direction, a displacement direction at a 45 degree angle from the transverse direction and a first length, a first rotator pair (112) having a first rotator and second rotator where the first rotator rotates a polarization in a first direction and the second rotator rotates a polarization in a second opposite direction, a second birefringent material (118) having the same longitudinal axis and a second displacement direction perpendicular to the longitudinal Application/Control Number: 09/832,492

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axis, a second rotator pair (122)) having a third rotator and fourth rotator where the third rotator rotates a polarization in the second direction and the fourth rotator rotates a polarization in a the first direction, a third birefringent material having the same longitudinal axis and a third displacement direction at a 45 degree angle to the transverse direction where a first optical path is established form the first port to the second port and a second optical path is established from the second port to the third port, a polarization beam deflector (114) for altering the direction of the first and second optical paths between the first rotator pair and the second birefringent material, a first collimator coupled to the first port and third port including a C-lens and a second collimator coupled to the second port including a C-lens (see Figures 3, 5 and 6, Col 3 Ln 50-Col 4 Ln 30, Col 4 Ln 45-Col 5 Ln 36 and Col 6 Lns 1-27).

- 4. Li further describes the rotators consisting of latching type garnet components.
- 5. Li further describes the signal as being decomposed into a first portion having a first polarization and a second portion having a second polarization where the second birefringent material allows the first polarization state to be transmitted undeflected and the second polarization state to be transmitted after being walked off by a first distance.
- 6. Li further describes optical fibers included in the ports.
- 7. The method of Claims 13-22 is embodied by the device described above and fully described by Li.

### Response to Arguments

8. Applicant's arguments filed 17 April 2003 have been fully considered but they are not persuasive. The declaration submitted does not overcome the rejection under U.S.C. 102(e). The inventor of the reference, U.S. Patent No. 6,366,402 B1, is Yiqiang Li as confirmed by the

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declaration submitted. The inventors of the current application are Yiqiang Li and Yongjian Wang. These are different inventive entities and the disclosure of U.S. Patent No. 6,366,402 B1 is valid prior art.

9. A declaration under 37 C.F.R. 1.132 is usually used when the reference has multiple inventors or authors and a later application is made to an invention of the subject matter that was the work of just one of the inventors.

#### Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T Rahll whose telephone number is (703) 306-0031. The examiner can normally be reached on M-F (8:00-5:30), with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (703) 308-4819. The fax phone numbers for

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the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Jerry T Rahll

July 11, 2003

AKM ENAVET ULLAH